

# Wayne D Kaplan

## List of Publications by Citations

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157  
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4,296  
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5.1  
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L-index

#	Paper	IF	Citations
147	Ordered liquid aluminum at the interface with sapphire. <i>Science</i> , <b>2005</b> , 310, 661-3	33.3	266
146	A review of wetting versus adsorption, complexions, and related phenomena: the rosetta stone of wetting. <i>Journal of Materials Science</i> , <b>2013</b> , 48, 5681-5717	4.3	199
145	Oscillatory mass transport in vapor-liquid-solid growth of sapphire nanowires. <i>Science</i> , <b>2010</b> , 330, 489-93	33.3	148
144	Laser cladding of turbine blades. <i>Surface and Coatings Technology</i> , <b>2000</b> , 125, 45-48	4.4	144
143	STRUCTURAL ORDER IN LIQUIDS INDUCED BY INTERFACES WITH CRYSTALS. <i>Annual Review of Materials Research</i> , <b>2006</b> , 36, 1-48	12.8	127
142	Nanometer-thick equilibrium films: the interface between thermodynamics and atomistics. <i>Science</i> , <b>2011</b> , 332, 206-9	33.3	119
141	Effect of SiC Submicrometer Particle Size and Content on Fracture Toughness of Alumina/SiC Nanocomposites. <i>Journal of the American Ceramic Society</i> , <b>1995</b> , 78, 254-256	3.8	106
140	Au/Sapphire (0001) solid-solid interfacial energy. <i>Journal of Materials Science</i> , <b>2006</b> , 41, 5099-5107	4.3	100
139	Structure refinement of titanium carbonitride (TiCN). <i>Materials Letters</i> , <b>1998</b> , 35, 344-350	3.3	89
138	Aluminium-alumina interface morphology and thermodynamics from dewetting experiments. <i>Acta Materialia</i> , <b>2003</b> , 51, 2793-2802	8.4	88
137	Oxygen induced interfacial phenomena during wetting of alumina by liquid aluminium. <i>Acta Materialia</i> , <b>2002</b> , 50, 75-88	8.4	85
136	Processing and properties of Al <sub>2</sub> O <sub>3</sub> nanocomposites reinforced with sub-micron Ni and NiAl <sub>2</sub> O <sub>4</sub> . <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2001</b> , 302, 83-91	5.3	71
135	The mechanism of initial de-wetting and detachment of thin Au films on YSZ. <i>Acta Materialia</i> , <b>2009</b> , 57, 248-256	8.4	65
134	Atomistic study of structural correlations at a liquid-solid interface. <i>Computational Materials Science</i> , <b>2002</b> , 24, 443-452	3.2	65
133	<b>2008,</b>		63
132	Intergranular films at metal-ceramic interfaces Part I: Interface structure and chemistry. <i>Acta Materialia</i> , <b>2005</b> , 53, 1559-1569	8.4	58
131	Residual stresses in alumina-SiC nanocomposites. <i>Acta Metallurgica Et Materialia</i> , <b>1994</b> , 42, 1147-1154		58

130	The equilibrium crystal shape of nickel. <i>Acta Materialia</i> , <b>2011</b> , 59, 3473-3483	8.4	52
129	Quantitative HRTEM analysis of FIB prepared specimens. <i>Journal of Microscopy</i> , <b>2008</b> , 232, 395-405	1.9	52
128	Intergranular films at Au-sapphire interfaces. <i>Journal of Materials Science</i> , <b>2006</b> , 41, 7775-7784	4.3	50
127	Structure of Electrodeposited Cobalt. <i>Electrochemical and Solid-State Letters</i> , <b>2002</b> , 5, C75		50
126	Ca Segregation to Basal Surfaces in $\gamma$ -Alumina. <i>Journal of the American Ceramic Society</i> , <b>1995</b> , 78, 2841-2844	3.8	49
125	Ordering at Solid-Liquid Interfaces Between Dissimilar Materials. <i>Journal of Materials Science</i> , <b>2001</b> , 9, 175-181		46
124	Solid-Solid interface reconstruction at equilibrated Ni/Al <sub>2</sub> O <sub>3</sub> interfaces. <i>Acta Materialia</i> , <b>2012</b> , 60, 4359-4369	3.6	45
123	Detailed investigation of ultrasonic Al/Cu wire-bonds: II. Microstructural evolution during annealing. <i>Journal of Materials Science</i> , <b>2008</b> , 43, 6038-6048	4.3	44
122	Quantitative analysis of layering and in-plane structural ordering at an alumina/aluminum solid-liquid interface. <i>Acta Materialia</i> , <b>2011</b> , 59, 4378-4386	8.4	43
121	Band Gap Tuning in Poly(triazine imide), a Nonmetallic Photocatalyst. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 8806-8812	3.8	42
120	Orientation relationships of copper crystals on c-plane sapphire. <i>Acta Materialia</i> , <b>2011</b> , 59, 5320-5331	8.4	41
119	Detailed investigation of ultrasonic Al/Cu wire-bonds: I. Intermetallic formation in the as-bonded state. <i>Journal of Materials Science</i> , <b>2008</b> , 43, 6029-6037	4.3	40
118	Solubility Limit of MgO in Al <sub>2</sub> O <sub>3</sub> at 1600°C. <i>Journal of the American Ceramic Society</i> , <b>2006</b> , 89, 350-353	3.8	36
117	Wetting of porous titanium carbonitride by Al/Mg/Si alloys. <i>Acta Materialia</i> , <b>1999</b> , 47, 3927-3934	8.4	32
116	Direct quantification of ordering at a solid-liquid interface using aberration corrected transmission electron microscopy. <i>Physical Review Letters</i> , <b>2013</b> , 110, 086106	7.4	30
115	TEM microstructural analysis of As-Bonded Al/Cu wire-bonds. <i>Journal of Materials Science</i> , <b>2007</b> , 42, 2334-2346	4.3	30
114	Calcium pyrophosphate crystal deposition disease: Preparation and characterization of crystals. <i>Journal of Crystal Growth</i> , <b>1988</b> , 87, 453-462	1.6	30
113	An experimental method for calibration of the plasmon mean free path. <i>Journal of Microscopy</i> , <b>2009</b> , 236, 165-73	1.9	29

112	Dielectric property-microstructure relationship for nanoporous silica based thin films. <i>Journal of Applied Physics</i> , <b>2004</b> , 95, 5762-5767	2.5	29
111	Band Gap Extraction from Individual Two-Dimensional Perovskite Nanosheets Using Valence Electron Energy Loss Spectroscopy. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 11170-11179	3.8	29
110	Calculation of process parameters for laser alloying and cladding. <i>Journal of Laser Applications</i> , <b>1998</b> , 10, 29-33	2.1	28
109	Fault-induced polytypism in (Cr, Fe) <sub>2</sub> B. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , <b>1995</b> , 72, 963-979		28
108	The mechanism of grain boundary motion in SrTiO <sub>3</sub> . <i>Journal of Materials Science</i> , <b>2016</b> , 51, 467-475	4.3	27
107	The role of abnormal grain growth on solid-state dewetting kinetics. <i>Acta Materialia</i> , <b>2014</b> , 81, 304-314	8.4	27
106	TEM specimen preparation of semiconductor/PMMA/metal interfaces. <i>Materials Characterization</i> , <b>2008</b> , 59, 1623-1629	3.9	27
105	Nonvolatile low-voltage memory transistor based on SiO <sub>2</sub> tunneling and HfO <sub>2</sub> blocking layers with charge storage in Au nanocrystals. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 212902	3.4	26
104	A nonvolatile memory capacitor based on Au nanocrystals with HfO <sub>2</sub> tunneling and blocking layers. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 023104	3.4	26
103	Morphology and orientation of the equilibrated Au/Sapphire (left (10bar 10} right) ) interface. <i>Journal of Materials Science</i> , <b>2006</b> , 41, 5371-5375	4.3	26
102	Intergranular films at metal/ceramic interfaces Part II: calculation of Hamaker coefficients. <i>Acta Materialia</i> , <b>2005</b> , 53, 1571-1581	8.4	26
101	Equilibrium Amorphous Silicon/Calcium/Oxygen Films at Interfaces in Copper/Alumina Composites Prepared by Melt Infiltration. <i>Journal of the American Ceramic Society</i> , <b>2001</b> , 84, 623-630	3.8	26
100	Electronic structure, morphology and emission polarization of enhanced symmetry InAs quantum-dot-like structures grown on InP substrates by molecular beam epitaxy. <i>Journal of Applied Physics</i> , <b>2013</b> , 114, 094306	2.5	25
99	Microstructural evolution of gold/aluminum wire-bonds. <i>Journal of Materials Science</i> , <b>2007</b> , 42, 2347-2357	4.3	25
98	Electrodeposition of Granular Cu-Co Alloys. <i>Journal of the Electrochemical Society</i> , <b>2003</b> , 150, C28	3.9	24
97	Segregation of Aluminium at Nickel-Sapphire Interfaces. <i>Journal of Materials Science</i> , <b>2001</b> , 9, 213-220		24
96	The effect of Fe-coverage on the structure, morphology and magnetic properties of Fe-FeSi <sub>2</sub> nanoislands. <i>Nanotechnology</i> , <b>2012</b> , 23, 495603	3.4	23
95	Quantitative Comparison of Transmission Electron Microscopy Techniques for the Study of Localized Ordering on a Nanoscale. <i>Journal of the American Ceramic Society</i> , <b>2005</b> , 81, 597-605	3.8	23

94	Reconstructing solid state nanopore shape from electrical measurements. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 223105	3.4	22
93	Static and dynamic mechanical damage mechanisms in TiC-1080 steel cermets. <i>Scripta Materialia</i> , <b>2004</b> , 51, 37-41	5.6	22
92	The Solubility Limit of CaO in $\gamma$ -Alumina at 1600°C. <i>Journal of the American Ceramic Society</i> , <b>2013</b> , 96, 3258-3264	3.8	21
91	Nucleation and growth of CVD Al on different types of TiN. <i>Thin Solid Films</i> , <b>1998</b> , 320, 67-72	2.2	21
90	Free Surface and Interface Thermodynamics of Liquid Nickel in Contact with Alumina. <i>Journal of Materials Science</i> , <b>2004</b> , 12, 73-83		21
89	Amorphous Films at Metal/Ceramic Interfaces. <i>International Journal of Materials Research</i> , <b>2003</b> , 94, 272-276		21
88	Anisotropic Grain Boundary Mobility in Undoped and Doped Alumina. <i>Journal of the American Ceramic Society</i> , <b>2014</b> , 97, 1610-1618	3.8	19
87	Interfacial phenomena and microstructure evolution during solidification of binary and ternary AlMgBi alloys cast with titanium carbonitride. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2002</b> , 326, 288-296	5.3	19
86	Order in nanometer thick intergranular films at Au/Sapphire interfaces. <i>Acta Materialia</i> , <b>2011</b> , 59, 5710-5715	1.5	18
85	Water-Based Method for Processing Aluminum Oxynitride (ALON). <i>International Journal of Applied Ceramic Technology</i> , <b>2008</b> , 5, 641-648	2	18
84	Reactive wetting of rutile by liquid aluminium. <i>Journal of Materials Science</i> , <b>2005</b> , 40, 1093-1100	4.3	18
83	Copper crystals on the (11 $\bar{2}$ )0 sapphire plane: orientation relationships, triple line ridges and interface shape equilibrium. <i>Journal of Materials Science</i> , <b>2013</b> , 48, 3013-3026	4.3	17
82	Microstructure and Phase Evolution of Niobium-Aluminide/Alumina Composites Prepared by Melt-Infiltration. <i>Physica Status Solidi A</i> , <b>1998</b> , 166, 241-255		17
81	The use of nanolaminates to obtain structurally stable high-K films with superior electrical properties: HfNO <sub>2</sub> /TiO <sub>2</sub> . <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 114106	2.5	17
80	The influence of interfacial wetting and adhesion on the formation of voids at metal-ceramic interfaces. <i>Journal of Materials Science</i> , <b>2006</b> , 41, 817-821	4.3	17
79	Residual stresses and magnetic properties of alumina/nickel nanocomposites. <i>Scripta Materialia</i> , <b>2004</b> , 50, 1209-1213	5.6	17
78	Solubility Limits of La and Y in Aluminum Oxynitride at 1870°C. <i>Journal of the American Ceramic Society</i> , <b>2008</b> , 91, 1693-1696	3.8	16
77	Polymorphic basal twin boundaries and anisotropic growth in $\gamma$ -Al <sub>2</sub> O <sub>3</sub> . <i>Acta Metallurgica Et Materialia</i> , <b>1995</b> , 43, 835-848		16

76	The influence of Ca on interface structure and chemistry in melt-infiltrated $\beta$ -Al <sub>2</sub> O <sub>3</sub> /Al composites. <i>Acta Materialia</i> , <b>1998</b> , 46, 2369-2379	8.4	16
75	MATERIALS SCIENCE. The mechanism of crystal deformation. <i>Science</i> , <b>2015</b> , 349, 1059-60	33.3	15
74	In Situ Characterization of Spinel Nanoceramic Suspensions. <i>Journal of the American Ceramic Society</i> , <b>2012</b> , 95, 3103-3108	3.8	15
73	Electronic structure of KCa <sub>2</sub> Nb <sub>3</sub> O <sub>10</sub> as envisaged by density functional theory and valence electron energy loss spectroscopy. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	15
72	The influence of electron-beam irradiation on electrical characteristics of metal-insulator-semiconductor capacitors based on a high-k dielectric stack of HfTiSiO(N) and HfTiO(N) layers. <i>Microelectronics Reliability</i> , <b>2009</b> , 49, 716-720	1.2	15
71	Intergranular films in metal-ceramic composites and the promotion of metal particle occlusion. <i>International Journal of Materials Research</i> , <b>2004</b> , 95, 266-270		15
70	Solid-state dewetting of Pt on (100) SrTiO <sub>3</sub> . <i>Journal of Materials Science</i> , <b>2014</b> , 49, 3863-3874	4.3	14
69	The accuracy of quantitative image matching for HRTEM applications. <i>Materials Characterization</i> , <b>2005</b> , 54, 194-205	3.9	14
68	The solubility limit of SiO <sub>2</sub> in $\beta$ -alumina at 1600 °C. <i>Scripta Materialia</i> , <b>2014</b> , 86, 40-43	5.6	13
67	A highly sensitive broadband planar metal-oxide-semiconductor photo detector fabricated on a silicon-on-insulator substrate. <i>Journal of Applied Physics</i> , <b>2014</b> , 116, 074513	2.5	13
66	High capacitance density metal-insulator-metal structures based on a high- $\kappa$ HfN <sub>x</sub> O <sub>y</sub> /BiO <sub>2</sub> /HfTiO <sub>y</sub> laminate stack. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 132902	3.4	13
65	Liquid assisted sintering of SiC powders by MW (2.45 GHz) heating. <i>Journal of the European Ceramic Society</i> , <b>2002</b> , 22, 1891-1896	6	13
64	Particle occlusion and mechanical properties of Ni/Al <sub>2</sub> O <sub>3</sub> nanocomposites. <i>Journal of the European Ceramic Society</i> , <b>2013</b> , 33, 3101-3113	6	12
63	A Nonvolatile Memory Capacitor Based on a Double Gold Nanocrystal Storing Layer and High-k Dielectric Tunneling and Control Layers. <i>Journal of the Electrochemical Society</i> , <b>2010</b> , 157, H463	3.9	12
62	Characterization of $\beta$ -Al <sub>2</sub> O <sub>3</sub> (Al <sub>2</sub> Si) <sub>3</sub> Ti composites. <i>Journal of the European Ceramic Society</i> , <b>2006</b> , 26, 2719-2726	6	12
61	Iron as an Oxygen Tracer at the Aluminum-Alumina Interface. <i>Journal of the American Ceramic Society</i> , <b>2002</b> , 85, 1601-1606	3.8	12
60	Ni $\gamma$ /SZ(111) solid-solid interfacial energy. <i>Journal of Materials Science</i> , <b>2014</b> , 49, 3943-3950	4.3	11
59	Non-volatile memory transistor based on Pt nanocrystals with negative differential resistance. <i>Journal of Applied Physics</i> , <b>2012</b> , 112, 024319	2.5	11

58	Coverage-dependent self-organized ordering of Co- and Ti-silicide nanoislands along step-bunch edges of vicinal Si(111). <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	11
57	Dynamical Properties of Optically Sensitive Metal-Insulator-Semiconductor Nonvolatile Memories Based on Pt Nanoparticles. <i>IEEE Nanotechnology Magazine</i> , <b>2016</b> , 15, 492-498	2.6	11
56	Microstructure of ZnO films synthesized on MgAl <sub>2</sub> O <sub>4</sub> from low-temperature aqueous solution: growth and post-annealing. <i>Journal of Materials Science</i> , <b>2013</b> , 48, 1614-1622	4.3	10
55	Characterization of grain boundary disconnections in SrTiO <sub>3</sub> part I: the dislocation component of grain boundary disconnections. <i>Journal of Materials Science</i> , <b>2019</b> , 54, 3694-3709	4.3	10
54	Discerning interface atomistic structure by phase contrast in STEM: The equilibrated Ni-YSZ interface. <i>Acta Materialia</i> , <b>2018</b> , 154, 71-78	8.4	9
53	Optically sensitive devices based on Pt nano particles fabricated by atomic layer deposition and embedded in a dielectric stack. <i>Journal of Applied Physics</i> , <b>2015</b> , 118, 134504	2.5	9
52	Highly sensitive optically controlled tunable capacitor and photodetector based on a metal-insulator-semiconductor on silicon-on-insulator substrates. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 044503	2.5	9
51	Palladium nanoparticles on silica-rich substrates by spontaneous reduction at room temperature. <i>Journal of Nanoparticle Research</i> , <b>2011</b> , 13, 5239-5249	2.3	9
50	The correlation of the electrical properties with electron irradiation and constant voltage stress for MIS devices based on high-k double layer (HfTiSiO:N and HfTiO:N) dielectrics. <i>Microelectronic Engineering</i> , <b>2010</b> , 87, 1728-1734	2.5	9
49	Microstructure of Alumina Composites Containing Niobium and Niobium Aluminides. <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 83, 397-402	3.8	9
48	The combined influence of Mg and Ca on microstructural evolution of alumina. <i>Journal of the American Ceramic Society</i> , <b>2019</b> , 102, 4882-4887	3.8	8
47	The role of carbon and SiO <sub>2</sub> in solid-state sintering of SiC. <i>Journal of the European Ceramic Society</i> , <b>2015</b> , 35, 2001-2005	6	8
46	Interfacial energies and mass transport in the Ni(Al) <sub>2</sub> O <sub>3</sub> system: The implication of very low oxygen activities. <i>Acta Materialia</i> , <b>2014</b> , 64, 282-296	8.4	8
45	The effect of light irradiation on electrons and holes trapping in nonvolatile memory capacitors employing sub 10 nm SiO <sub>2</sub> /HfO <sub>2</sub> stacks and Au nanocrystals. <i>Microelectronic Engineering</i> , <b>2011</b> , 88, 964-968	2.5	8
44	Structural disorder in SiGe films grown epitaxially on Si by ion beam sputter deposition. <i>Thin Solid Films</i> , <b>1997</b> , 294, 64-68	2.2	8
43	Microstructural dependence of giant-magnetoresistance in electrodeposited Cu-Co alloys. <i>Journal of Materials Science</i> , <b>2004</b> , 39, 5701-5709	4.3	8
42	Characterization of grain boundary disconnections in SrTiO <sub>3</sub> Part II: the influence of superimposed disconnections on image analysis. <i>Journal of Materials Science</i> , <b>2019</b> , 54, 3710-3725	4.3	8
41	The Cr-Doped Ni-YSZ(111) interface: Segregation, oxidation and the Ni equilibrium crystal shape. <i>Acta Materialia</i> , <b>2019</b> , 166, 28-36	8.4	7

40	Equilibrium segregation of Ti to Au/Sapphire interfaces. <i>Journal of Materials Science</i> , <b>2012</b> , 47, 1647-1654.	4.3	7
39	Static and dynamic mechanical properties of alumina reinforced with sub-micron Ni particles. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 597, 1-9	5.3	7
38	Ultraviolet to near infrared response of optically sensitive nonvolatile memories based on platinum nano-particles and high-k dielectrics on a silicon on insulator substrate. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 074503	2.5	7
37	Shape-controlled nanopores in single crystals. <i>Nanotechnology</i> , <b>2010</b> , 21, 475301	3.4	7
36	Structure of the Equilibrated Ni(111)-YSZ(111) Solid-Solid Interface. <i>Journal of the American Ceramic Society</i> , <b>2016</b> , 99, 1064-1070	3.8	7
35	The influence of CaO on alumina grain boundary mobility. <i>Journal of the European Ceramic Society</i> , <b>2019</b> , 39, 1324-1328	6	7
34	Orientation relationships of copper crystals on sapphire (1 0 1 0) m-plane and (1 0 1 2) r-plane substrates. <i>Journal of Crystal Growth</i> , <b>2015</b> , 418, 57-63	1.6	6
33	Optical properties of nonvolatile memory capacitors based on gold nanoparticles and SiO <sub>2</sub> /HfO <sub>2</sub> sublayers. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 022905	3.4	6
32	Four questions about triple lines. <i>Scripta Materialia</i> , <b>2010</b> , 62, 894-898	5.6	6
31	Laser induced Cu/alumina bonding: Microstructure and bond mechanism. <i>Surface and Coatings Technology</i> , <b>2000</b> , 125, 40-44	4.4	6
30	A new phase transition phenomenon in gallium-lanthanide binary alloys. <i>Scripta Metallurgica Et Materialia</i> , <b>1991</b> , 25, 571-574		6
29	Alumina-Aluminium Interfaces <b>1998</b> , 153-160		6
28	Quantitative differences in the Y grain boundary excess at boundaries delimiting large and small grains in Y doped Al <sub>2</sub> O <sub>3</sub> . <i>Journal of the European Ceramic Society</i> , <b>2018</b> , 38, 1829-1835	6	6
27	Insights into the structural, electronic, and magnetic properties of Fe <sub>2-x</sub> Ti <sub>x</sub> O <sub>3</sub> /Fe <sub>2</sub> O <sub>3</sub> thin films with x = 0.44 grown on Al <sub>2</sub> O <sub>3</sub> (0001). <i>Journal of Materials Science</i> , <b>2015</b> , 50, 122-137	4.3	5
26	Effect of Yttrium on the Fracture Strength of the Sn-1.0Ag-0.5Cu Solder Joints. <i>Journal of Electronic Materials</i> , <b>2016</b> , 45, 3259-3262	1.9	5
25	The equilibrium orientation relationship between Pt and SrTiO <sub>3</sub> and its implication on Pt films deposited by physical vapor phase deposition. <i>Journal of Materials Science</i> , <b>2014</b> , 49, 3917-3927	4.3	5
24	Hf-Doped Ni/Al <sub>2</sub> O <sub>3</sub> Interfaces at Equilibrium. <i>Journal of the American Ceramic Society</i> , <b>2012</b> , 95, 3997-4003	3.8	5
23	The mechanism of grain growth at general grain boundaries in SrTiO <sub>3</sub> . <i>Scripta Materialia</i> , <b>2020</b> , 188, 206-211	3.6	5

22	Quantification of ordering at a solid-liquid interface using plasmon electron energy loss spectroscopy. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 051603	3-4	4
21	Unusual strain relaxation in SiGe/Si heterostructures. <i>Applied Physics Letters</i> , <b>1997</b> , 70, 1287-1289	3-4	4
20	Study of Porous Silica Based Films as Low-k Dielectric Material and their Interface with Copper Metallization. <i>Materials Research Society Symposia Proceedings</i> , <b>2002</b> , 716, 7201		4
19	The influence of temperature on the solubility limit of Ca in alumina. <i>Journal of the European Ceramic Society</i> , <b>2020</b> , 40, 5767-5772	6	4
18	Optical control of capacitance in a metal-insulator-semiconductor diode with embedded metal nanoparticles. <i>Journal of Applied Physics</i> , <b>2017</b> , 121, 214504	2-5	3
17	Processing and microstructural control of metal-reinforced ceramic matrix nanocomposites <b>2006</b> , 285-308		3
16	Evolution of Surface Topography of as-Grown Si Films near Amorphous-to-Polycrystalline Transition. <i>Journal of the Electrochemical Society</i> , <b>2004</b> , 151, G904	3-9	3
15	Ordered LaGa <sub>4</sub> and its relation to other structures in the Ga <sub>2</sub> La binary system. <i>Journal of Alloys and Compounds</i> , <b>1996</b> , 232, 126-132	5-7	3
14	Morphology of laser treated polycrystalline $\gamma$ -Al <sub>2</sub> O <sub>3</sub> . <i>Journal of Laser Applications</i> , <b>1999</b> , 11, 38-41	2-1	2
13	The influence of carbon on the microstructure and wear resistance of alumina. <i>Journal of the American Ceramic Society</i> , <b>2021</b> , 104, 4214-4225	3-8	2
12	Preface to the HTC 2012 special issue. <i>Journal of Materials Science</i> , <b>2012</b> , 47, 8245-8246	4-3	1
11	Microstructure and chemical analysis of Hf-based high-k dielectric layers in metal-insulator-metal capacitors. <i>Thin Solid Films</i> , <b>2010</b> , 518, 4467-4472	2-2	1
10	Advanced Materials and Characterization: Proceedings of the Brandon Symposium. <i>Journal of Materials Science</i> , <b>2006</b> , 41, 7667-7668	4-3	1
9	Factors which determine the orientation of CVD Al films grown on TiN. <i>Solid-State Electronics</i> , <b>1999</b> , 43, 1011-1014	1-7	1
8	Introduction to Scanning Electron Microscopy <b>2012</b> , 1-37		0
7	Ca segregation at Au/SiO <sub>2</sub> interfaces. <i>Journal of Materials Science</i> , <b>2019</b> , 54, 7719-7727	4-3	
6	Preface to the Special Section E-MRS MACAN. <i>Journal of Materials Science</i> , <b>2012</b> , 47, 1603-1604	4-3	
5	Equilibrium Amorphous Films at Metal-Ceramic Interfaces. <i>Microscopy and Microanalysis</i> , <b>2004</b> , 10, 274-285		

- 4 Non-Equilibrium Wetting at Aluminium-Sapphire Interfaces. *Materials Research Society Symposia Proceedings*, **2000**, 654, 461
- 3 Microstructure of Nb BASED A12O3 Composites. *Microscopy and Microanalysis*, **1998**, 4, 588-589 0.5
- 2 Structure and chemistry of nanometer-thick intergranular films at metal-ceramic interfaces **2008**, 521-522
- 1 Ni-YSZ(001) solid-solid interfacial energy and orientation relationships. *Journal of the American Ceramic Society*, **2018**, 102, 2987 3.8